

### Claims

1. A thermolabile liposome with a controlled release  
5 temperature for the liposome content,  
characterized in that  
it is essentially formed from at least one  
phosphatidylcholine with a main transition  
temperature in the range from 0 to 80°C and more  
10 than 15 to 70% by weight of phosphatidyl-  
oligoglycerol.
2. The liposome as claimed in claim 1,  
characterized in that  
15 it contains at least one phosphatidylcholine,  
selected from the group consisting of 1-palmitoyl-  
2-ollioylglycero-3-phosphocholine, 1-stearoyl-  
2-ollioyl-3-phosphocholine, 1-palmitoyl-2-lauroyl-  
glycero-3-phosphocholine, 1-behenoyl-2-ollioyl-  
20 glycero-3-phosphocholine, 1-stearoyl-2-lauroyl-  
glycero-3-phosphocholine, 1,3-dimyristoylglycero-  
2-phosphocholine, 1,2-dimyristoylglycero-  
3-phosphocholine, 1-palmitoyl-2-myristoylglycero-  
3-phosphocholine, 1-stearoyl-2-myristoylglycero-  
25 3-phosphocholine, 1-myristoyl-2-palmitoylglycero-  
3-phosphocholine, 1,3-palmitoylglycero-2-phospho-  
choline, 1,2-dipalmitoylglycero-3-phosphocholine,  
1-myristoyl-2-stearoylglycero-3-phosphocholine,  
1-stearoyl-3-myristoylglycero-2-phosphocholine,  
30 1-stearoyl-2-palmitoylglycero-3-phosphocholine,  
1-palmitoyl-2-stearoylglycero-3-phosphocholine,  
1,3-distearoylglycero-2-phosphocholine, 1,2-di-  
stearoylglycero-3-phosphocholine, 1,2-di-  
arachinoylglycero-3-phosphocholine, 1,2-di-  
35 behenoylglycero-3-phosphocholine and 1,2-di-  
lignoceroylglycero-3-phosphocholine.
3. The liposome as claimed in claim 1 or 2,

characterized in that  
it contains dipalmitoylphosphoglyceroglycerol as  
the phosphatidyloliglycerol.

- 5    4.    The liposome as claimed in one of the preceding  
         claims,  
         characterized in that  
         it essentially consists of 20 to 75% of  
         dipalmitoyllecithin (DPPC), 10 to 25% of  
10    distearoyllecithin (DSPC) and more than 15 to 50%  
         of dipalmitoylphosphoglyceroglycerol (DPPG2).
5.    The liposome as claimed in one of the preceding  
         claims,  
15    characterized in that  
         it additionally contains up to 15% of at least one  
         alkylphosphocholine.
6.    The liposome as claimed in claim 5,  
20    characterized in that  
         it contains 10 to 15% of at least one of the  
         compounds hexadecylphosphocholine, oleoyl-  
         phosphocholine or ether lysolecithin.
- 25    7.    The liposome as claimed in one of the preceding  
         claims,  
         characterized in that  
         it contains no cholesterol.
- 30    8.    The liposome as claimed in one of the preceding  
         claims,  
         characterized in that  
         it contains an active compound or/and a labelling  
         substance.